

**2022 Annual Report on Interbasin Transfers
for
The Cities of Concord and Kannapolis**

Prepared for and by:

City of Concord



City of Kannapolis



Submitted to:

North Carolina Division of Water Resources

February 2023

Executive Summary

The 2022 Annual Report on Interbasin Transfers (IBTs) for the Cities of Concord and Kannapolis (Cities) includes monitoring data for daily tracking of IBT amounts and documentation of compliance with all IBT Certificate conditions. Annual reports were previously prepared for calendar years 2007 through 2021 and are available on the North Carolina Division of Water Resources (NCDWR) website. The reports for earlier years can be found at the following website: <https://deq.nc.gov/concord-kannapolis>.

The North Carolina Environmental Management Commission (EMC) approved the Cities' IBT Certificate in January 2007 authorizing transfers of up to 10 million gallons per day (mgd) from the Catawba River Basin to the Rocky River Basin and 10 mgd from the Yadkin River Basin to the Rocky River Basin. Additionally, a grandfathered IBT of 6 mgd authorizes transfer from Second Creek, located in the South Yadkin River Basin, to the Rocky River Basin. The terms "Cities" and "Certificate Holders" are used interchangeably herein.

In 2022, the Certificate Holders complied with all conditions of their IBT Certificate. The Cities of Concord and Kannapolis had a maximum daily transfer from the Catawba River Basin of 0 mgd during 2022. The maximum daily transfer from the Yadkin River Basin was 6.790 mgd.

In 2022, the City of Kannapolis pumped water from Second Creek to Kannapolis Lake under its South Yadkin River Basin grandfathered IBT. The maximum daily transfer under the grandfathered IBT from the South Yadkin River Basin to the Rocky River Basin in 2022 was -0.032 mgd. The 2022 IBT daily transfers for Concord and Kannapolis are shown in Figure ES-1.

In addition, a settlement was reached in 2010 on a lawsuit filed by the Catawba River Foundation, Inc. and the Protect the Catawba Coalition. While this does not change the IBT Certificate or required reporting in any way, the Cities did agree to some operational conditions regarding the Catawba River Basin during times of drought.

Table ES-1

2022 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin ^e			Yadkin River Basin			Second Creek ^{c,d} (South Yadkin River Basin)		
	Water Purchase (mgd)		IBT as % of Certificate ^a	Water Purchase (mgd)		IBT as % of Certificate ^{b,c}	Water Transfer (mgd)		IBT as % of Grand- fathered amount
	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day
2022	0	0	0%	4.509	6.790	67.9%	-0.290	-0.032	-0.533%

^a Maximum Day IBT of 10 mgd from the Catawba River Basin.

^b Maximum Day IBT of 10 mgd from the Yadkin River Basin.

^c The grandfathered 6-mgd Maximum Day IBT limit from Second Creek (South Yadkin River Basin) into the Rocky River Basin is not included in the 10-mgd Maximum Day IBT limit for the Yadkin River Basin.

^d There was no transfer from Second Creek, therefore these numbers are negative.

2022 Daily IBT Per Basin (mgd)

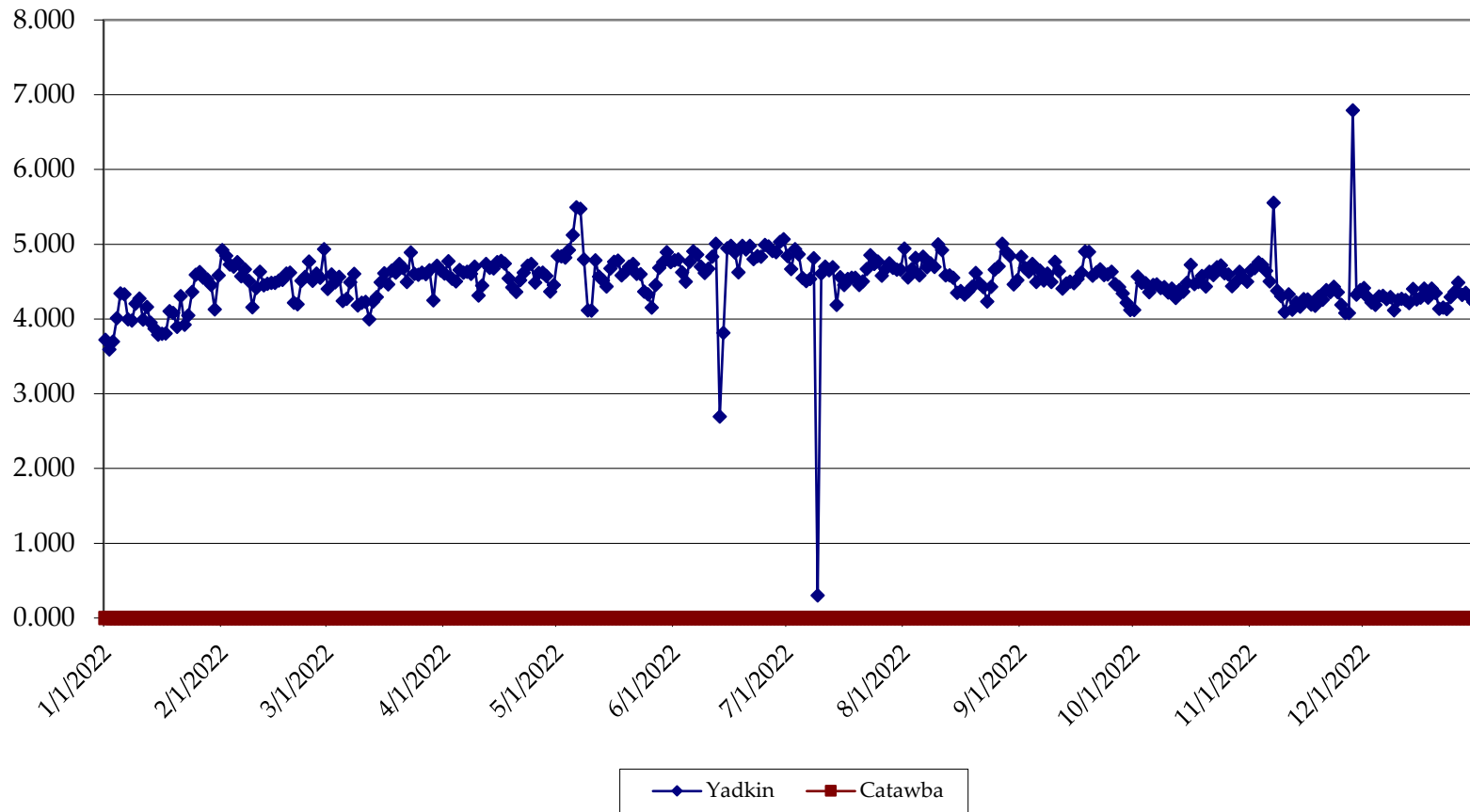


Figure ES-1
2022 Daily Interbasin Transfers by Basin

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Daily Interbasin Transfer Amounts for 2022

Acronyms and Abbreviations

DMAC	Drought Management Advisory Council
EMC	Environmental Management Commission
FERC	Federal Energy Regulatory Commission
IBT	Interbasin Transfer
LIP	Low Inflow Protocol
mgd	million gallons per day
NCDWR	North Carolina Division of Water Resources
WSRP	Water Shortage Response Plan
WTP	Water Treatment Plant

1.0 - Introduction

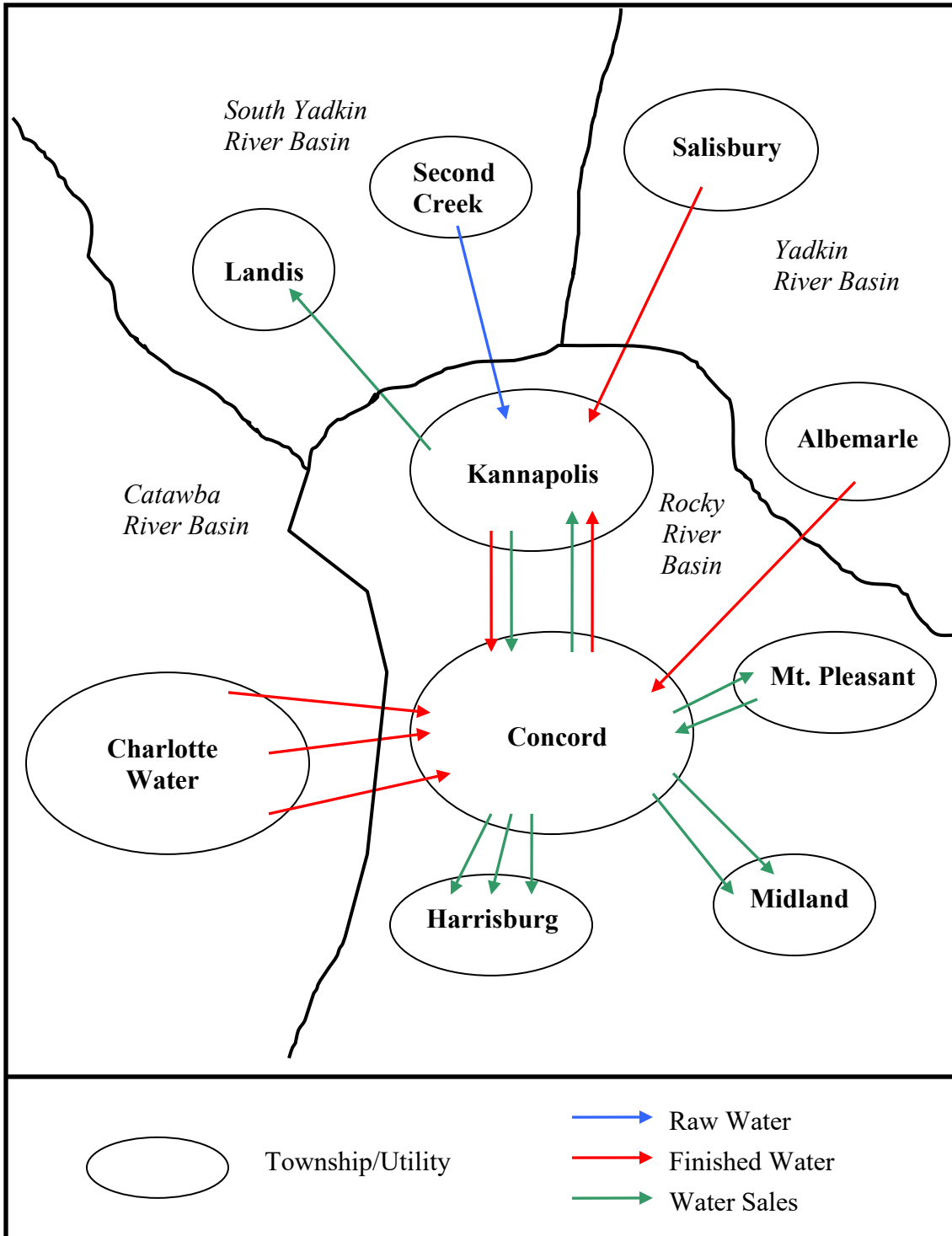
The Cities of Concord and Kannapolis (Cities) received an interbasin transfer (IBT) Certificate, which was originally approved on January 10, 2007, and signed into effect on January 25, 2007. The North Carolina Environmental Management Commission (EMC) has authorized transfers of up to 10 million gallons per day (mgd) from the Catawba River Basin to the Rocky River Basin and 10 mgd from the Yadkin River Basin to the Rocky River Basin. As a condition of the IBT Certificate, the Cities are required to produce an Annual Report that documents transfers over the past year. Annual reports were also prepared for calendar years 2007 through 2021 and are available on the North Carolina Division of Water Resources (NCDWR) website. The reports for earlier years can be found at the following website: <https://deq.nc.gov/concord-kannapolis>.

The Cities provide water to each other, various municipalities in the area (including: Mount Pleasant, Midland, Harrisburg, and Landis), and unincorporated areas of Cabarrus County. Concord owns and operates the water distribution system used by the Town of Midland. Charlotte Water and the City of Salisbury currently have contracts to provide water to the Cities from the Catawba and Yadkin River Basins, respectively.

The terms “Cities” and “Certificate Holders” are used interchangeably herein. Figure 1-1 illustrates the ability to transfer water among the Certificate Holders and all municipalities served by the Certificate Holders.

Figure 1-1

Water Connections of the Certificate Holders and All Municipalities Served by the Certificate Holders



2.0 - IBT Monitoring

2.1 - Service Area Water Demand

Table 2-1 presents 2022 annual average water production for the Certificate Holders based on finished water produced at the Hillgrove, Coddle Creek, and Kannapolis Water Treatment Plants (WTPs). It also shows finished water purchases from Charlotte Water, the City of Salisbury and the City of Albemarle, if they occurred. Additionally, Table 2-1 presents the 2022 annual average IBT (or water purchases) from each basin covered by the IBT Certificate and from Second Creek, from which transfers are authorized by a grandfathered IBT. In 2022, finished water production averaged 13.52 mgd, purchased IBT finished water averaged 0 mgd for Catawba River Basin, 4.509 mgd for the Yadkin River Basin and -0.290 mgd for Second Creek. The combined 2022 annual average water use for the Certificate Holders was 17.73 mgd.

Table 2-1

2022 Water Production or Purchases by River Basin

2022					
Certificate Holders	Annual Average Finished Water Produced ^a (mgd)	Annual Average Purchased Water (mgd)			Annual Average Combined Water Use (mgd)
		Catawba River Basin ^b	Yadkin River Basin	Second Creek	
Concord & Kannapolis	13.52	0	4.509	-0.290	17.73

^a Water produced within Rocky River Basin; may include water from Second Creek transferred directly into Kannapolis Lake.

2.2 - Interbasin Transfers

Daily IBT amounts for the Certificate Holders are included in the Appendix. Data is provided for the period January 1, 2022 through December 31, 2022. The maximum day IBT from the Catawba River Basin during the calendar year 2022 was 0 mgd. This represents 0% of the permitted maximum day, 10 mgd IBT from the Catawba River Basin under the Certificate approved by the EMC in January 2007. The maximum day IBT from the Yadkin River Basin during the calendar year 2022 was 6.79 mgd. This represents 67.9% of the permitted maximum day, 10 mgd IBT from the Yadkin River Basin under the Certificate. There were transfers of water to Second Creek with a maximum day IBT -0.032 mgd, which represents -0.533% of the permitted maximum day, 6 mgd IBT from the South Yadkin River Basin under the grandfathered Certificate. Table 2-2 shows the IBT use for the Certificate Holders and the percentage of use from the Catawba and Yadkin River Basins.

Table 2-2

2022 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin ^e			Yadkin River Basin			Second Creek ^{e,d} (South Yadkin River Basin)		
	Water Purchase (mgd)		IBT as % of Certificate ^a	Water Purchase (mgd)		IBT as % of Certificate ^{b,c}	Water Transfer (mgd)		IBT as % of Grand-fathered amount
	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day
2022	0	0	0%	4.509	6.79	67.9%	-0.289	-0.032	-0.533%

^a Maximum Day IBT of 10 mgd from the Catawba River Basin.

^b Maximum Day IBT of 10 mgd from the Yadkin River Basin.

^c The grandfathered 6-mgd Maximum Day IBT limit from Second Creek (South Yadkin River Basin) into the Rocky River Basin is not included in the 10-mgd Maximum Day IBT limit for the Yadkin River Basin.

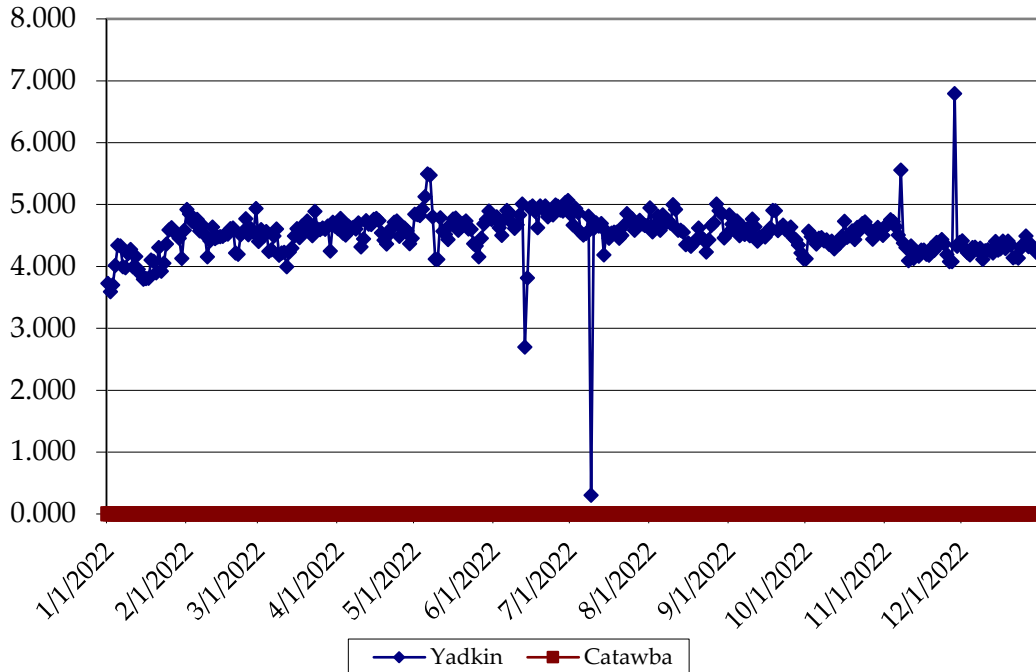
^d There was no transfer from Second Creek, therefore these numbers are negative.

Figure 2-1 displays the daily IBT amounts for water purchases from the Catawba and Yadkin River Basins.

Figure 2-1

2022 Daily Interbasin Transfers by Basin

2022 Daily IBT Per Basin (mgd)



3.0 - Other Related Information

In 2010, a settlement was reached in a lawsuit filed by the Catawba River Foundation, Inc. and the Protect the Catawba Coalition. While this does not affect the IBT Certificate, its conditions, or required reporting in any way, the Cities did agree to some operational conditions regarding the Catawba River Basin during times of drought.

During designated droughts beyond July 1, 2015, following either Low Inflow Protocol (LIP) or Drought Management Advisory Council (DMAC) Drought Stage declaration, the Cities have agreed to limit the Catawba River Basin IBT so that it corresponds to water use reduction goals. A summary of this agreement is presented in Table 3-1.

Table 3-1

Catawba River Basin IBT during Drought Conditions

LIP Stage or DMAC Drought Stage	Maximum Day Transfer (mgd)
0 / Abnormally Dry	10.0
1 / Moderate Drought	9.0
2 / Severe Drought	8.5
3 / Extreme Drought	7.0
4 / Exceptional Drought	6.0

4.0 - Compliance with Certificate Conditions

A summary of the conditions of the IBT Certificate approved on January 10, 2007 along with the current status of compliance for each is provided below. Language from the certificate is followed by actions for each condition.

4.1 - Condition 1 (Federal Energy Regulatory Commission [FERC] Licensure)

If at any time any legal requirement that (a) governs the operation of the hydroelectric facilities in the Catawba River Basin currently licensed as Federal Energy Regulatory Commission (FERC) Project No. P-2232 or in the Yadkin Pee-Dee River Basin currently licensed as FERC Project Nos. P-2206 and P-2197 and (b) governs or affects water use and/or quality, substantially differs from the actual or anticipated FERC license conditions or other legal requirement upon which the analysis underlying this Certificate is based, such as changes to minimum flow requirements or drought mitigation measures, the Commission may reopen and modify this Certificate.

This condition requires no action by the Certificate Holders.

4.2 - Condition 2 (Drought Management Plan)

Each Certificate Holder shall prepare a Drought Management Plan. The Cities shall implement measures corresponding to the most severe level of drought conditions in either the Catawba or Yadkin River Basins. The Cities shall not transfer any water to any other jurisdictions unless that jurisdiction agrees to be bound by this condition in full.

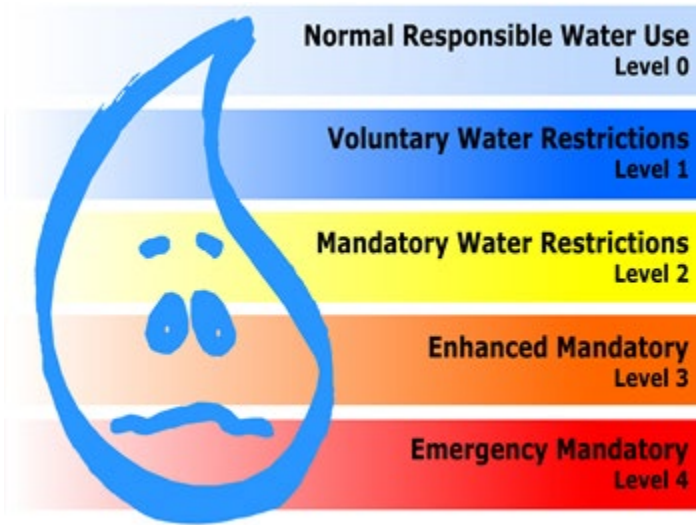
The Cities submitted the Drought Management Plan on July 31, 2007; comments were received on November 11, 2007, and the revised plan was submitted on January 8, 2008. The Drought Management Plan was incorporated into an updated Water Shortage Response Plan (WSRP) in 2010. The WSRP, prepared as a joint document for the Certificate Holders, is available on the NCDWR website at the following web address:

http://www.ncwater.org/Water_Supply_Planning/Water_Shortage_Response_Plans/plan

Table 4-1 shows Normal and Drought Stages 0-4, the names of each, the date the Catawba River Basin managers implemented Draft LIP actions in response to drought monitoring, the Yadkin-Pee Dee River Basin drought monitor, and the associated actions taken by the Cities.

Level 0, Normal Responsible Water Use, was in place from January 1 through December 31 of 2022 (Figure 4-1). Other outdoor water use conservation measures are encouraged but not required.

During the year, the Cities drought stages follow the drought stages of the Catawba-Wataree Water Management Group; hence the Cities stayed in Normal Responsible Water Use Level.



The Cities have agreements in place that include enforcement policies with other systems that purchase water from them.

Table 4-1

Concord and Kannapolis 2022 Normal and Drought Stages

2022 Period of Drought					
Drought Stage	Drought Monitor Classification	Catawba River Basin ^a (NC Drought Monitor)	Yadkin River Basin ^b (NC Drought Monitor)	Action by Cities	Cities' Actions Taken
	Normal		January 1 – December 31		
0	Abnormally Dry	January 1 – December 31			
1	Moderate Drought				
2	Severe Drought				
3	Extreme Drought				
4	Exceptional Drought				

^a The Catawba River Basin is listed as the drought stage declared by the Catawba-Wateree Drought Management Advisory Group.

^b The Yadkin River Basin is listed as the drought stage declared by the Yadkin-Pee Dee Drought Management Advisory Group

4.3 - Condition 3 (Disaggregation of IBT Amount)

If the Certificate Holders discontinue their cooperative service agreement, then the permitted IBT amount will be allocated amongst the Certificate Holders based on their projected 2030 needs.

The cooperative service agreement between the Certificate Holders remained in effect throughout 2022.

The Cities and local municipalities cooperatively and effectively communicate and manage their respective water distribution systems. The Cities sell water to each other and reconcile billing monthly. Additionally, Concord owns and operates the water distribution system for Midland, providing water service to all Midland customers. Harrisburg purchases water from Concord, measured by six meters. Concord also provides water service to unincorporated areas of Cabarrus County. Mount Pleasant did not purchase water from the City of Concord in 2022. Further emphasizing the interconnected nature of the Cities and local municipalities, Kannapolis provides water to Landis, located in the South Yadkin River Basin, which is not subject to this IBT Certificate.

4.4 - Condition 4 (Compliance and Monitoring Plan)

In cooperation with the Division of Water Resources, the Certificate Holders shall develop an IBT Compliance and Monitoring Plan.

The Cities submitted the Compliance and Monitoring Plan on July 31, 2007. This plan was finalized in December 2007.

4.5 - Condition 5 (EMC Consideration of Impacts)

The EMC may reopen the Certificate and adjust existing or require new conditions to ensure detrimental impacts are mitigated if environmental impacts are found to be substantially different from those projected in the EMC's Findings of Fact.

This condition requires no action by the Certificate Holders. The EMC did not take action on this condition in 2022.

4.6 - Condition 6 (20-Year Certificate Evaluation)

In twenty years from the date of the Certificate, the Cities shall submit a written report to the EMC to include: (a) summary of transfers for the previous twenty years, (b) discussion of any changes to the environmental impacts assessment from IBT transfers, (c) summary of all actions to address actual or potential drought conditions, (d) recommendations for any changes to the Certificate, (e) details on consultation with interested stakeholders, and (f) certification of compliance with Certificate. This will continue at 20-year intervals.

The IBT Certificate was approved on January 10, 2007 and signed into effect on January 25, 2007; therefore, the first 20-year certificate evaluation report will be completed in 2027.

4.7 - Condition 7 (Limit of Certificate)

The Certificate does not exempt the Cities from compliance with any other requirements of law.

This condition requires no action by the Cities.

APPENDIX

Daily Interbasin Transfer Amounts for 2022

2022 Concord-Kannapolis IBT Tracking

Calculated Fields

Condition of IBT Certificate (January 25, 2007)

Maximum day transfer from the Catawba River Basin 10 MGD

Maximum day transfer from the Yadkin Pee-Dee River Basin 10 MGD

Maximum day transfer from the South Yadkin River Basin (grandfather) 6 MGD

Maximum day transfer to the South Yadkin River Basin (cannot exceed transfer from South Yadkin by more than 1.99 MGD)

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	South Yadkin	Yadkin	Yadkin	Catawba		South Yadkin	South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT									
1/1/2022	0.000	0.000	3.723	0.000	0.256	-0.256	3.723	0.000	0.000	0.000%	3.723	37.230%	-0.256	-4.267%	0.256	12.864%	
1/2/2022	0.000	0.000	3.591	0.000	0.232	-0.232	3.591	0.000	0.000	0.000%	3.591	35.910%	-0.232	-3.867%	0.232	11.658%	
1/3/2022	0.000	0.000	3.699	0.000	0.241	-0.241	3.699	0.000	0.000	0.000%	3.699	36.990%	-0.241	-4.017%	0.241	12.111%	
1/4/2022	0.000	0.000	4.012	0.000	0.259	-0.259	4.012	0.000	0.000	0.000%	4.012	40.120%	-0.259	-4.317%	0.259	13.015%	
1/5/2022	0.000	0.000	4.341	0.000	0.269	-0.269	4.341	0.000	0.000	0.000%	4.341	43.410%	-0.269	-4.483%	0.269	13.518%	
1/6/2022	0.000	0.000	4.330	0.000	0.266	-0.266	4.330	0.000	0.000	0.000%	4.330	43.300%	-0.266	-4.433%	0.266	13.367%	
1/7/2022	0.000	0.000	3.996	0.000	0.258	-0.258	3.996	0.000	0.000	0.000%	3.996	39.960%	-0.258	-4.300%	0.258	12.965%	
1/8/2022	0.000	0.000	3.980	0.000	0.250	-0.250	3.980	0.000	0.000	0.000%	3.980	39.800%	-0.250	-4.167%	0.250	12.563%	
1/9/2022	0.000	0.000	4.204	0.000	0.244	-0.244	4.204	0.000	0.000	0.000%	4.204	42.040%	-0.244	-4.067%	0.244	12.261%	
1/10/2022	0.000	0.000	4.274	0.000	0.299	-0.299	4.274	0.000	0.000	0.000%	4.274	42.740%	-0.299	-4.983%	0.299	15.025%	
1/11/2022	0.000	0.000	3.990	0.000	0.270	-0.270	3.990	0.000	0.000	0.000%	3.990	39.900%	-0.270	-4.500%	0.270	13.568%	
1/12/2022	0.000	0.000	4.161	0.000	0.274	-0.274	4.161	0.000	0.000	0.000%	4.161	41.610%	-0.274	-4.567%	0.274	13.769%	
1/13/2022	0.000	0.000	3.951	0.000	0.27	-0.270	3.951	0.000	0.000	0.000%	3.951	39.510%	-0.270	-4.500%	0.270	13.568%	
1/14/2022	0.000	0.000	3.870	0.000	0.266	-0.266	3.870	0.000	0.000	0.000%	3.870	38.700%	-0.266	-4.433%	0.266	13.367%	
1/15/2022	0.000	0.000	3.790	0.000	0.275	-0.275	3.790	0.000	0.000	0.000%	3.790	37.900%	-0.275	-4.583%	0.275	13.819%	
1/16/2022	0.000	0.000	3.802	0.000	0.256	-0.256	3.802	0.000	0.000	0.000%	3.802	38.020%	-0.256	-4.267%	0.256	12.864%	
1/17/2022	0.000	0.000	3.806	0.000	0.271	-0.271	3.806	0.000	0.000	0.000%	3.806	38.060%	-0.271	-4.517%	0.271	13.618%	
1/18/2022	0.000	0.000	4.104	0.000	0.271	-0.271	4.104	0.000	0.000	0.000%	4.104	41.040%	-0.271	-4.517%	0.271	13.618%	
1/19/2022	0.000	0.000	4.080	0.000	0.275	-0.275	4.080	0.000	0.000	0.000%	4.080	40.800%	-0.275	-4.583%	0.275	13.819%	
1/20/2022	0.000	0.000	3.895	0.000	0.285	-0.285	3.895	0.000	0.000	0.000%	3.895	38.950%	-0.285	-4.750%	0.285	14.322%	
1/21/2022	0.000	0.000	4.305	0.000	0.299	-0.299	4.305	0.000	0.000	0.000%	4.305	43.050%	-0.299	-4.983%	0.299	15.025%	
1/22/2022	0.000	0.000	3.922	0.000	0.270	-0.270	3.922	0.000	0.000	0.000%	3.922	39.220%	-0.270	-4.500%	0.270	13.568%	
1/23/2022	0.000	0.000	4.049	0.000	0.312	-0.312	4.049	0.000	0.000	0.000%	4.049	40.490%	-0.312	-5.200%	0.312	15.678%	
1/24/2022	0.000	0.000	4.363	0.000	0.310	-0.310	4.363	0.000	0.000	0.000%	4.363	43.630%	-0.310	-5.167%	0.310	15.578%	
1/25/2022	0.000	0.000	4.590	0.000	0.356	-0.356	4.590	0.000	0.000	0.000%	4.590	45.900%	-0.356	-5.933%	0.356	17.889%	
1/26/2022	0.000	0.000	4.626	0.000	0.332	-0.332	4.626	0.000	0.000	0.000%	4.626	46.260%	-0.332	-5.533%	0.332	16.683%	
1/27/2022	0.000	0.000	4.552	0.000	0.276	-0.276	4.552	0.000	0.000	0.000%	4.552	45.520%	-0.276	-4.600%	0.276	13.869%	
1/28/2022	0.000	0.000	4.531	0.000	0.267	-0.267	4.531	0.000	0.000	0.000%	4.531	45.310%	-0.267	-4.450%	0.267	13.417%	
1/29/2022	0.000	0.000	4.454	0.000	0.320	-0.320	4.454	0.000	0.000	0.000%	4.454	44.540%	-0.320	-5.333%	0.320	16.080%	
1/30/2022	0.000	0.000	4.127	0.000	0.275	-0.275	4.127	0.000	0.000	0.000%	4.127	41.270%	-0.275	-4.583%	0.275	13.819%	
1/31/2022	0.000	0.000	4.584	0.000	0.278	-0.278	4.584	0.000	0.000	0.000%	4.584	45.840%	-0.278	-4.633%	0.278	13.970%	
2/1/2022	0.000	0.000	4.920	0.000	0.320	-0.320	4.920	0.000	0.000	0.000%	4.920	49.200%	-0.320	-5.333%	0.320	16.080%	
2/2/2022	0.000	0.000	4.847	0.000	0.271	-0.271	4.847	0.000	0.000	0.000%	4.847	48.470%	-0.271	-4.517%	0.271	13.618%	
2/3/2022	0.000	0.000	4.730	0.000	0.235	-0.235	4.730	0.000	0.000	0.000%	4.730	47.300%	-0.235	-3.917%	0.235	11.809%	
2/4/2022	0.000	0.000	4.701	0.000	0.252	-0.252	4.701	0.000	0.000	0.000%	4.701	47.010%	-0.252	-4.200%	0.252	12.663%	
2/5/2022	0.000	0.000	4.759	0.000	0.255	-0.255	4.759	0.000	0.000	0.000%	4.759	47.590%	-0.255	-4.250%	0.255	12.814%	
2/6/2022	0.000	0.000	4.571	0.000	0.214	-0.214	4.571	0.000	0.000	0.000%	4.571	45.710%	-0.214	-3.567%	0.214	10.754%	
2/7/2022	0.000	0.000	4.665	0.000	0.258	-0.258	4.665	0.000	0.000	0.000%	4.665	46.650%	-0.258	-4.300%	0.258	12.965%	
2/8/2022	0.000	0.000	4.511	0.000	0.257	-0.257	4.511	0.000	0.000	0.000%	4.511	45.110%	-0.257	-4.283%	0.257	12.915%	
2/9/2022	0.000	0.000	4.156	0.000	0.261	-0.261	4.156	0.000	0.000	0.000%	4.156	41.560%	-0.261	-4.350%	0.261	13.116%	
2/10/2022	0.000	0.000	4.413	0.000	0.273	-0.273	4.413	0.000	0.000	0.000%	4.413	44.130%	-0.273	-4.550%	0.273	13.719%	
2/11/2022	0.000	0.000	4.633	0.000	0.227	-0.227	4.633	0.000	0.000	0.000%	4.633	46.330%	-0.227	-3.783%	0.227	11.407%	
2/12/2022	0.000	0.000	4.451	0.000	0.256	-0.256	4.451	0.000	0.000	0.000%	4.451	44.510%	-0.256	-4.267%	0.256	12.864%	
2/13/2022	0.000	0.000	4.472	0.000	0.221	-0.221	4.472	0.000	0.000	0.000%	4.472	44.720%	-0.221	-3.683%	0.221	11.106%	
2/14/2022	0.000	0.000	4.482	0.000	0.342	-0.342	4.482	0.000	0.000	0.000%	4.482	44.820%	-0.342	-5.700%	0.342	17.186%	
2/15/2022	0.000	0.000	4.483	0.000	0.274	-0.274	4.483	0.000	0.000	0.000%	4.483	44.830%	-0.274	-4.567%	0.274	13.769%	
2/16/2022	0.000	0.000	4.516	0.000	0.214	-0.214	4.516	0.000	0.000	0.000%	4.516	45.160%	-0.214	-3.567%	0.214	10.754%	
2/17/2022	0.000	0.000	4.521	0.000	0.256	-0.256	4.521	0.000	0.000	0.000%	4.521	45.210%	-0.256	-4.267%	0.256	12.864%	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	Salisbury 1		Albemarle 1	Charlotte 1-3		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).											
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer	
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT									
2/18/2022	0.000	0.000	4.609	0.000	0.253	-0.253	4.609	0.000	0.000	0.000%	4.609	46.090%	-0.253	-4.217%	0.253	12.714%	
2/19/2022	0.000	0.000	4.619	0.000	0.219	-0.219	4.619	0.000	0.000	0.000%	4.619	46.190%	-0.219	-3.650%	0.219	11.005%	
2/20/2022	0.000	0.000	4.217	0.000	0.252	-0.252	4.217	0.000	0.000	0.000%	4.217	42.170%	-0.252	-4.200%	0.252	12.663%	
2/21/2022	0.000	0.000	4.197	0.000	0.262	-0.262	4.197	0.000	0.000	0.000%	4.197	41.970%	-0.262	-4.367%	0.262	13.166%	
2/22/2022	0.000	0.000	4.512	0.000	0.241	-0.241	4.512	0.000	0.000	0.000%	4.512	45.120%	-0.241	-4.017%	0.241	12.111%	
2/23/2022	0.000	0.000	4.562	0.000	0.226	-0.226	4.562	0.000	0.000	0.000%	4.562	45.620%	-0.226	-3.767%	0.226	11.357%	
2/24/2022	0.000	0.000	4.768	0.000	0.257	-0.257	4.768	0.000	0.000	0.000%	4.768	47.680%	-0.257	-4.283%	0.257	12.915%	
2/25/2022	0.000	0.000	4.509	0.000	0.282	-0.282	4.509	0.000	0.000	0.000%	4.509	45.090%	-0.282	-4.700%	0.282	14.171%	
2/26/2022	0.000	0.000	4.609	0.000	0.249	-0.249	4.609	0.000	0.000	0.000%	4.609	46.090%	-0.249	-4.150%	0.249	12.513%	
2/27/2022	0.000	0.000	4.553	0.000	0.212	-0.212	4.553	0.000	0.000	0.000%	4.553	45.530%	-0.212	-3.533%	0.212	10.653%	
2/28/2022	0.000	0.000	4.935	0.000	0.256	-0.256	4.935	0.000	0.000	0.000%	4.935	49.350%	-0.256	-4.267%	0.256	12.864%	
3/1/2022	0.000	0.000	4.400	0.000	0.213	-0.213	4.400	0.000	0.000	0.000%	4.400	44.000%	-0.213	-3.550%	0.213	10.704%	
3/2/2022	0.000	0.000	4.596	0.000	0.248	-0.248	4.596	0.000	0.000	0.000%	4.596	45.960%	-0.248	-4.133%	0.248	12.462%	
3/3/2022	0.000	0.000	4.491	0.000	0.255	-0.255	4.491	0.000	0.000	0.000%	4.491	44.910%	-0.255	-4.250%	0.255	12.814%	
3/4/2022	0.000	0.000	4.563	0.000	0.251	-0.251	4.563	0.000	0.000	0.000%	4.563	45.630%	-0.251	-4.183%	0.251	12.613%	
3/5/2022	0.000	0.000	4.240	0.000	0.242	-0.242	4.240	0.000	0.000	0.000%	4.240	42.400%	-0.242	-4.033%	0.242	12.161%	
3/6/2022	0.000	0.000	4.269	0.000	0.224	-0.224	4.269	0.000	0.000	0.000%	4.269	42.690%	-0.224	-3.733%	0.224	11.256%	
3/7/2022	0.000	0.000	4.491	0.000	0.251	-0.251	4.491	0.000	0.000	0.000%	4.491	44.910%	-0.251	-4.183%	0.251	12.613%	
3/8/2022	0.000	0.000	4.603	0.000	0.254	-0.254	4.603	0.000	0.000	0.000%	4.603	46.030%	-0.254	-4.233%	0.254	12.764%	
3/9/2022	0.000	0.000	4.181	0.000	0.215	-0.215	4.181	0.000	0.000	0.000%	4.181	41.810%	-0.215	-3.583%	0.215	10.804%	
3/10/2022	0.000	0.000	4.217	0.000	0.253	-0.253	4.217	0.000	0.000	0.000%	4.217	42.170%	-0.253	-4.217%	0.253	12.714%	
3/11/2022	0.000	0.000	4.228	0.000	0.251	-0.251	4.228	0.000	0.000	0.000%	4.228	42.280%	-0.251	-4.183%	0.251	12.613%	
3/12/2022	0.000	0.000	3.995	0.000	0.211	-0.211	3.995	0.000	0.000	0.000%	3.995	39.950%	-0.211	-3.517%	0.211	10.603%	
3/13/2022	0.000	0.000	4.234	0.000	0.252	-0.252	4.234	0.000	0.000	0.000%	4.234	42.340%	-0.252	-4.200%	0.252	12.663%	
3/14/2022	0.000	0.000	4.293	0.000	0.209	-0.209	4.293	0.000	0.000	0.000%	4.293	42.930%	-0.209	-3.483%	0.209	10.503%	
3/15/2022	0.000	0.000	4.489	0.000	0.251	-0.251	4.489	0.000	0.000	0.000%	4.489	44.890%	-0.251	-4.183%	0.251	12.613%	
3/16/2022	0.000	0.000	4.610	0.000	0.209	-0.209	4.610	0.000	0.000	0.000%	4.610	46.100%	-0.209	-3.483%	0.209	10.503%	
3/17/2022	0.000	0.000	4.462	0.000	0.247	-0.247	4.462	0.000	0.000	0.000%	4.462	44.620%	-0.247	-4.117%	0.247	12.412%	
3/18/2022	0.000	0.000	4.649	0.000	0.207	-0.207	4.649	0.000	0.000	0.000%	4.649	46.490%	-0.207	-3.450%	0.207	10.402%	
3/19/2022	0.000	0.000	4.621	0.000	0.252	-0.252	4.621	0.000	0.000	0.000%	4.621	46.210%	-0.252	-4.200%	0.252	12.663%	
3/20/2022	0.000	0.000	4.735	0.000	0.261	-0.261	4.735	0.000	0.000	0.000%	4.735	47.350%	-0.261	-4.350%	0.261	13.116%	
3/21/2022	0.000	0.000	4.679	0.000	0.213	-0.213	4.679	0.000	0.000	0.000%	4.679	46.790%	-0.213	-3.550%	0.213	10.704%	
3/22/2022	0.000	0.126	4.367	0.000	0.255	-0.255	4.493	0.000	0.000	0.000%	4.493	44.930%	-0.255	-4.250%	0.255	12.814%	
3/23/2022	0.000	0.302	4.587	0.000	0.214	-0.214	4.889	0.000	0.000	0.000%	4.889	48.890%	-0.214	-3.567%	0.214	10.754%	
3/24/2022	0.000	0.000	4.605	0.000	0.256	-0.256	4.605	0.000	0.000	0.000%	4.605	46.050%	-0.256	-4.267%	0.256	12.864%	
3/25/2022	0.000	0.000	4.593	0.000	0.251	-0.251	4.593	0.000	0.000	0.000%	4.593	45.930%	-0.251	-4.183%	0.251	12.613%	
3/26/2022	0.000	0.000	4.621	0.000	0.219	-0.219	4.621	0.000	0.000	0.000%	4.621	46.210%	-0.219	-3.650%	0.219	11.005%	
3/27/2022	0.000	0.000	4.601	0.000	0.266	-0.266	4.601	0.000	0.000	0.000%	4.601	46.010%	-0.266	-4.433%	0.266	13.367%	
3/28/2022	0.000	0.000	4.650	0.000	0.26	-0.260	4.650	0.000	0.000	0.000%	4.650	46.500%	-0.260	-4.333%	0.260	13.065%	
3/29/2022	0.000	0.000	4.248	0.000	0.215	-0.215	4.248	0.000	0.000	0.000%	4.248	42.480%	-0.215	-3.583%	0.215	10.804%	
3/30/2022	0.000	0.000	4.714	0.000	0.309	-0.309	4.714	0.000	0.000	0.000%	4.714	47.140%	-0.309	-5.150%	0.309	15.528%	
3/31/2022	0.000	0.000	4.646	0.000	0.257	-0.257	4.646	0.000	0.000	0.000%	4.646	46.460%	-0.257	-4.283%	0.257	12.915%	
4/1/2022	0.000	0.000	4.609	0.000	0.221	-0.221	4.609	0.000	0.000	0.000%	4.609	46.090%	-0.221	-3.683%	0.221	11.106%	
4/2/2022	0.000	0.000	4.774	0.000	0.262	-0.262	4.774	0.000	0.000	0.000%	4.774	47.740%	-0.262	-4.367%	0.262	13.166%	
4/3/2022	0.000	0.000	4.537	0.000	0.265	-0.265	4.537	0.000	0.000	0.000%	4.537	45.370%	-0.265	-4.417%	0.265	13.317%	
4/4/2022	0.000	0.000	4.504	0.000	0.270	-0.270	4.504	0.000	0.000	0.000%	4.504	45.040%	-0.270	-4.500%	0.270	13.568%	
4/5/2022	0.000	0.000	4.654	0.000	0.256	-0.256	4.654	0.000	0.000	0.000%	4.654	46.540%	-0.256	-4.267%	0.256	12.864%	
4/6/2022	0.000	0.000	4.619	0.000	0.266	-0.266	4.619	0.000	0.000	0.000%	4.619	46.190%	-0.266	-4.433%	0.266	13.367%	
4/7/2022	0.000	0.000	4.630	0.000	0.214	-0.214	4.630	0.000	0.000	0.000%	4.630	46.300%	-0.214	-3.567%	0.214	10.754%	
4/8/2022	0.000	0.000	4.605	0.000	0.256	-0.256	4.605	0.000	0.000	0.000%	4.605	46.050%	-0.256	-4.267%	0.256	12.864%	
4/9/2022	0.000	0.000	4.700	0.000	0.263	-0.263	4.700	0.000	0.000	0.000%	4.700	47.000%	-0.263	-4.383%	0.263	13.216%	
4/10/2022	0.000	0.000	4.314	0.000	0.273	-0.273	4.314	0.000	0.000	0.000%	4.314	43.140%	-0.273	-4.550%	0.273	13.719%	
4/11/2022	0.000	0.000	4.446	0.000	0.269	-0.269	4.446	0.000	0.000	0.000%	4.446	44.460%	-0.269	-4.483%	0.269	13.518%	
4/12/2022	0.000	0.000	4.738	0.000	0.261	-0.261	4.738	0.000	0.000	0.000%	4.738	47.380%	-0.261	-4.350%	0.261	13.116%	
4/13/2022	0.000	0.000	4.683	0.000	0.265	-0.265	4.683	0.000	0.000	0.000%	4.683	46.830%	-0.265	-4.417%	0.265	13.317%	
4/14/2022	0.000	0.000	4.676	0.000	0.258	-0.258	4.676	0.000	0.000	0.000%	4.676	46.760%	-0.258	-4.300%	0.258	12.965%	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	Salisbury 1		Albemarle 1	Charlotte 1-3		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).											
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South Yadkin	Yadkin	Catawba									
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer		
4/15/2022	0.000	0.000	4.759	0.000	0.268	-0.268	4.759	0.000	0.000	0.000%	4.759	47.590%	-0.268	-4.467%	0.268	13.467%	
4/16/2022	0.000	0.000	4.776	0.000	0.258	-0.258	4.776	0.000	0.000	0.000%	4.776	47.760%	-0.258	-4.300%	0.258	12.965%	
4/17/2022	0.000	0.000	4.740	0.000	0.247	-0.247	4.740	0.000	0.000	0.000%	4.740	47.400%	-0.247	-4.117%	0.247	12.412%	
4/18/2022	0.000	0.000	4.541	0.000	0.249	-0.249	4.541	0.000	0.000	0.000%	4.541	45.410%	-0.249	-4.150%	0.249	12.513%	
4/19/2022	0.000	0.000	4.424	0.000	0.286	-0.286	4.424	0.000	0.000	0.000%	4.424	44.240%	-0.286	-4.767%	0.286	14.372%	
4/20/2022	0.000	0.000	4.362	0.000	0.229	-0.229	4.362	0.000	0.000	0.000%	4.362	43.620%	-0.229	-3.817%	0.229	11.508%	
4/21/2022	0.000	0.000	4.519	0.000	0.329	-0.329	4.519	0.000	0.000	0.000%	4.519	45.190%	-0.329	-5.483%	0.329	16.533%	
4/22/2022	0.000	0.000	4.620	0.000	0.229	-0.229	4.620	0.000	0.000	0.000%	4.620	46.200%	-0.229	-3.817%	0.229	11.508%	
4/23/2022	0.000	0.000	4.713	0.000	0.272	-0.272	4.713	0.000	0.000	0.000%	4.713	47.130%	-0.272	-4.533%	0.272	13.668%	
4/24/2022	0.000	0.000	4.735	0.000	0.31	-0.310	4.735	0.000	0.000	0.000%	4.735	47.350%	-0.310	-5.167%	0.310	15.578%	
4/25/2022	0.000	0.000	4.485	0.000	0.292	-0.292	4.485	0.000	0.000	0.000%	4.485	44.850%	-0.292	-4.867%	0.292	14.673%	
4/26/2022	0.000	0.000	4.616	0.000	0.220	-0.220	4.616	0.000	0.000	0.000%	4.616	46.160%	-0.220	-3.667%	0.220	11.055%	
4/27/2022	0.000	0.000	4.620	0.000	0.283	-0.283	4.620	0.000	0.000	0.000%	4.620	46.200%	-0.283	-4.717%	0.283	14.221%	
4/28/2022	0.000	0.000	4.574	0.000	0.318	-0.318	4.574	0.000	0.000	0.000%	4.574	45.740%	-0.318	-5.300%	0.318	15.980%	
4/29/2022	0.000	0.000	4.364	0.000	0.264	-0.264	4.364	0.000	0.000	0.000%	4.364	43.640%	-0.264	-4.400%	0.264	13.266%	
4/30/2022	0.000	0.000	4.453	0.000	0.276	-0.276	4.453	0.000	0.000	0.000%	4.453	44.530%	-0.276	-4.600%	0.276	13.869%	
5/1/2022	0.000	0.000	4.841	0.000	0.283	-0.283	4.841	0.000	0.000	0.000%	4.841	48.410%	-0.283	-4.717%	0.283	14.221%	
5/2/2022	0.000	0.000	4.838	0.000	0.324	-0.324	4.838	0.000	0.000	0.000%	4.838	48.380%	-0.324	-5.400%	0.324	16.281%	
5/3/2022	0.000	0.000	4.822	0.000	0.299	-0.299	4.822	0.000	0.000	0.000%	4.822	48.220%	-0.299	-4.983%	0.299	15.025%	
5/4/2022	0.000	0.000	4.923	0.000	0.304	-0.304	4.923	0.000	0.000	0.000%	4.923	49.230%	-0.304	-5.067%	0.304	15.276%	
5/5/2022	0.000	0.000	5.124	0.000	0.362	-0.362	5.124	0.000	0.000	0.000%	5.124	51.240%	-0.362	-6.033%	0.362	18.191%	
5/6/2022	0.000	0.000	5.494	0.000	0.317	-0.317	5.494	0.000	0.000	0.000%	5.494	54.940%	-0.317	-5.283%	0.317	15.930%	
5/7/2022	0.000	0.000	5.472	0.000	0.266	-0.266	5.472	0.000	0.000	0.000%	5.472	54.720%	-0.266	-4.433%	0.266	13.367%	
5/8/2022	0.000	0.000	4.798	0.000	0.260	-0.260	4.798	0.000	0.000	0.000%	4.798	47.980%	-0.260	-4.333%	0.260	13.065%	
5/9/2022	0.000	0.000	4.118	0.000	0.320	-0.320	4.118	0.000	0.000	0.000%	4.118	41.180%	-0.320	-5.333%	0.320	16.080%	
5/10/2022	0.000	0.000	4.112	0.000	0.324	-0.324	4.112	0.000	0.000	0.000%	4.112	41.120%	-0.324	-5.400%	0.324	16.281%	
5/11/2022	0.000	0.000	4.786	0.000	0.343	-0.343	4.786	0.000	0.000	0.000%	4.786	47.860%	-0.343	-5.717%	0.343	17.236%	
5/12/2022	0.000	0.000	4.569	0.000	0.341	-0.341	4.569	0.000	0.000	0.000%	4.569	45.690%	-0.341	-5.683%	0.341	17.136%	
5/13/2022	0.000	0.000	4.516	0.000	0.260	-0.260	4.516	0.000	0.000	0.000%	4.516	45.160%	-0.260	-4.333%	0.260	13.065%	
5/14/2022	0.000	0.000	4.434	0.000	0.277	-0.277	4.434	0.000	0.000	0.000%	4.434	44.340%	-0.277	-4.617%	0.277	13.920%	
5/15/2022	0.000	0.000	4.676	0.000	0.322	-0.322	4.676	0.000	0.000	0.000%	4.676	46.760%	-0.322	-5.367%	0.322	16.181%	
5/16/2022	0.000	0.000	4.766	0.000	0.277	-0.277	4.766	0.000	0.000	0.000%	4.766	47.660%	-0.277	-4.617%	0.277	13.920%	
5/17/2022	0.000	0.000	4.780	0.000	0.365	-0.365	4.780	0.000	0.000	0.000%	4.780	47.800%	-0.365	-6.083%	0.365	18.342%	
5/18/2022	0.000	0.000	4.585	0.000	0.301	-0.301	4.585	0.000	0.000	0.000%	4.585	45.850%	-0.301	-5.017%	0.301	15.126%	
5/19/2022	0.000	0.000	4.631	0.000	0.337	-0.337	4.631	0.000	0.000	0.000%	4.631	46.310%	-0.337	-5.617%	0.337	16.935%	
5/20/2022	0.000	0.000	4.699	0.000	0.335	-0.335	4.699	0.000	0.000	0.000%	4.699	46.990%	-0.335	-5.583%	0.335	16.834%	
5/21/2022	0.000	0.000	4.735	0.000	0.322	-0.322	4.735	0.000	0.000	0.000%	4.735	47.350%	-0.322	-5.367%	0.322	16.181%	
5/22/2022	0.000	0.000	4.603	0.000	0.321	-0.321	4.603	0.000	0.000	0.000%	4.603	46.030%	-0.321	-5.352%	0.321	16.136%	
5/23/2022	0.000	0.000	4.599	0.000	0.271	-0.271	4.599	0.000	0.000	0.000%	4.599	45.990%	-0.271	-4.517%	0.271	13.618%	
5/24/2022	0.000	0.000	4.364	0.000	0.266	-0.266	4.364	0.000	0.000	0.000%	4.364	43.640%	-0.266	-4.433%	0.266	13.367%	
5/25/2022	0.000	0.000	4.328	0.000	0.273	-0.273	4.328	0.000	0.000	0.000%	4.328	43.280%	-0.273	-4.550%	0.273	13.719%	
5/26/2022	0.000	0.000	4.152	0.000	0.304	-0.304	4.152	0.000	0.000	0.000%	4.152	41.520%	-0.304	-5.067%	0.304	15.276%	
5/27/2022	0.000	0.000	4.453	0.000	0.269	-0.269	4.453	0.000	0.000	0.000%	4.453	44.530%	-0.269	-4.483%	0.269	13.518%	
5/28/2022	0.000	0.000	4.684	0.000	0.305	-0.305	4.684	0.000	0.000	0.000%	4.684	46.840%	-0.305	-5.083%	0.305	15.327%	
5/29/2022	0.000	0.000	4.759	0.000	0.280	-0.280	4.759	0.000	0.000	0.000%	4.759	47.590%	-0.280	-4.667%	0.280	14.070%	
5/30/2022	0.000	0.000	4.895	0.000	0.285	-0.285	4.895	0.000	0.000	0.000%	4.895	48.950%	-0.285	-4.750%	0.285	14.322%	
5/31/2022	0.000	0.000	4.759	0.000	0.284	-0.284	4.759	0.000	0.000	0.000%	4.759	47.590%	-0.284	-4.733%	0.284	14.271%	
6/1/2022	0.000	0.000	4.786	0.000	0.328	-0.328	4.786	0.000	0.000	0.000%	4.786	47.860%	-0.328	-5.467%	0.191	9.598%	
6/2/2022	0.000	0.000	4.798	0.000	0.305	-0.305	4.798	0.000	0.000	0.000%	4.798	47.980%	-0.305	-5.083%	0.178	8.945%	
6/3/2022	0.000	0.000	4.625	0.000	0.314	-0.314	4.625	0.000	0.000	0.000%	4.625	46.250%	-0.314	-5.233%	0.162	8.141%	
6/4/2022	0.000	0.000	4.499	0.000	0.342	-0.342	4.499	0.000	0.000	0.000%	4.499	44.990%	-0.233	-3.883%	0.233	11.709%	
6/5/2022	0.000	0.000	4.765	0.000	0.328	-0.328	4.765	0.000	0.000	0.000%	4.765	47.650%	-0.328	-5.467%	0.208	10.452%	
6/6/2022	0.000	0.000	4.905	0.000	0.337	-0.337	4.905	0.000	0.000	0.000%	4.905	49.050%	-0.337	-5.617%	0.215	10.804%	
6/7/2022	0.000	0.000	4.860	0.000	0.329	-0.329	4.860	0.000	0.000	0.000%	4.860	48.600%	-0.329	-5.483%	0.229	11.508%	
6/8/2022	0.000	0.000	4.702	0.000	0.325	-0.325	4.702	0.000	0.000	0.000%	4.702	47.020%	-0.325	-5.417%	0.251	12.613%	
6/9/2022	0.000	0.000	4.614	0.000	0.297	-0.297	4.614	0.000	0.000	0.000%	4.614	46.140%	-0.297	-4.950%	0.277	13.920%	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer						
	South Yadkin	Salisbury 1 Yadkin	Albemarle 1 Yadkin	Charlotte 1-3 Catawba	South Yadkin	South Yadkin	Yadkin	Catawba	NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).							
	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer
DATE																
6/10/2022	0.000	0.000	4.672	0.000	0.390	-0.390	4.672	0.000	0.000	0.000%	4.672	46.720%	-0.390	-6.500%	0.294	14.774%
6/11/2022	0.000	0.000	4.833	0.000	0.356	-0.356	4.833	0.000	0.000	0.000%	4.833	48.330%	-0.356	-5.933%	0.181	9.095%
6/12/2022	0.000	0.000	5.005	0.000	0.362	-0.362	5.005	0.000	0.000	0.000%	5.005	50.050%	-0.362	-6.033%	0.189	9.497%
6/13/2022	0.000	0.000	2.695	0.000	0.349	-0.349	2.695	0.000	0.000	0.000%	2.695	26.950%	-0.349	-5.817%	0.218	10.955%
6/14/2022	0.000	0.000	3.814	0.000	0.345	-0.345	3.814	0.000	0.000	0.000%	3.814	38.140%	-0.345	-5.750%	0.248	12.462%
6/15/2022	0.000	0.000	4.945	0.000	0.396	-0.396	4.945	0.000	0.000	0.000%	4.945	49.450%	-0.396	-6.600%	0.157	7.889%
6/16/2022	0.000	0.000	4.978	0.000	0.282	-0.282	4.978	0.000	0.000	0.000%	4.978	49.780%	-0.282	-4.700%	0.180	9.045%
6/17/2022	0.000	0.000	4.890	0.000	0.362	-0.362	4.890	0.000	0.000	0.000%	4.890	48.900%	-0.362	-6.033%	0.274	13.769%
6/18/2022	0.000	0.000	4.624	0.000	0.325	-0.325	4.624	0.000	0.000	0.000%	4.624	46.240%	-0.325	-5.417%	0.288	14.472%
6/19/2022	0.000	0.000	4.978	0.000	0.355	-0.355	4.978	0.000	0.000	0.000%	4.978	49.780%	-0.355	-5.917%	0.138	6.935%
6/20/2022	0.000	0.000	4.929	0.000	0.356	-0.356	4.929	0.000	0.000	0.000%	4.929	49.290%	-0.356	-5.933%	0.206	10.352%
6/21/2022	0.000	0.000	4.977	0.000	0.350	-0.350	4.977	0.000	0.000	0.000%	4.977	49.770%	-0.350	-5.833%	0.325	16.332%
6/22/2022	0.000	0.000	4.801	0.000	0.398	-0.398	4.801	0.000	0.000	0.000%	4.801	48.010%	-0.398	-6.633%	0.324	16.281%
6/23/2022	0.000	0.000	4.842	0.000	0.372	-0.372	4.842	0.000	0.000	0.000%	4.842	48.420%	-0.372	-6.200%	0.225	11.307%
6/24/2022	0.000	0.000	4.831	0.000	0.358	-0.358	4.831	0.000	0.000	0.000%	4.831	48.310%	-0.358	-5.967%	0.173	8.693%
6/25/2022	0.000	0.000	4.991	0.000	0.399	-0.399	4.991	0.000	0.000	0.000%	4.991	49.910%	-0.399	-6.650%	0.257	12.915%
6/26/2022	0.000	0.000	4.969	0.000	0.401	-0.401	4.969	0.000	0.000	0.000%	4.969	49.690%	-0.401	-6.683%	0.251	12.613%
6/27/2022	0.000	0.000	4.910	0.000	0.391	-0.391	4.910	0.000	0.000	0.000%	4.910	49.100%	-0.391	-6.517%	0.193	9.698%
6/28/2022	0.000	0.000	4.895	0.000	0.337	-0.337	4.895	0.000	0.000	0.000%	4.895	48.950%	-0.337	-5.617%	0.251	12.613%
6/29/2022	0.000	0.000	5.032	0.000	0.336	-0.336	5.032	0.000	0.000	0.000%	5.032	50.320%	-0.336	-5.600%	0.239	12.010%
6/30/2022	0.000	0.000	5.066	0.000	0.330	-0.330	5.066	0.000	0.000	0.000%	5.066	50.660%	-0.330	-5.500%	0.295	14.824%
7/1/2022	0.000	0.000	4.843	0.000	0.404	-0.404	4.843	0.000	0.000	0.000%	4.843	48.430%	-0.404	-6.733%	0.291	14.623%
7/2/2022	0.000	0.000	4.668	0.000	0.333	-0.333	4.668	0.000	0.000	0.000%	4.668	46.680%	-0.333	-5.550%	0.291	14.623%
7/3/2022	0.000	0.000	4.934	0.000	0.311	-0.311	4.934	0.000	0.000	0.000%	4.934	49.340%	-0.311	-5.183%	0.442	22.211%
7/4/2022	0.000	0.000	4.866	0.000	0.374	-0.374	4.866	0.000	0.000	0.000%	4.866	48.660%	-0.374	-6.233%	0.356	17.889%
7/5/2022	0.000	0.000	4.545	0.000	0.380	-0.380	4.545	0.000	0.000	0.000%	4.545	45.450%	-0.380	-6.333%	0.194	9.749%
7/6/2022	0.000	0.000	4.507	0.000	0.334	-0.334	4.507	0.000	0.000	0.000%	4.507	45.070%	-0.334	-5.567%	0.245	12.312%
7/7/2022	0.000	0.000	4.533	0.000	0.032	-0.032	4.533	0.000	0.000	0.000%	4.533	45.330%	-0.032	-0.533%	0.191	9.598%
7/8/2022	0.000	0.000	4.811	0.000	0.288	-0.288	4.811	0.000	0.000	0.000%	4.811	48.110%	-0.288	-4.800%	0.200	10.050%
7/9/2022	0.000	0.000	4.634	0.000	0.325	-0.325	0.300	0.000	0.000	0.000%	0.300	3.000%	-0.325	-5.417%	0.290	14.573%
7/10/2022	0.000	0.000	4.607	0.000	0.324	-0.324	4.607	0.000	0.000	0.000%	4.607	46.070%	-0.324	-5.400%	0.300	15.075%
7/11/2022	0.000	0.000	4.702	0.000	0.295	-0.295	4.702	0.000	0.000	0.000%	4.702	47.020%	-0.295	-4.917%	0.290	14.573%
7/12/2022	0.000	0.000	4.652	0.000	0.320	-0.320	4.652	0.000	0.000	0.000%	4.652	46.520%	-0.320	-5.333%	0.290	14.573%
7/13/2022	0.000	0.000	4.691	0.000	0.275	-0.275	4.691	0.000	0.000	0.000%	4.691	46.910%	-0.275	-4.583%	0.267	13.417%
7/14/2022	0.000	0.000	4.187	0.000	0.273	-0.273	4.187	0.000	0.000	0.000%	4.187	41.870%	-0.273	-4.550%	0.158	7.940%
7/15/2022	0.000	0.000	4.560	0.000	0.305	-0.305	4.560	0.000	0.000	0.000%	4.560	45.600%	-0.305	-5.083%	0.224	11.256%
7/16/2022	0.000	0.000	4.455	0.000	0.318	-0.318	4.455	0.000	0.000	0.000%	4.455	44.550%	-0.318	-5.300%	0.224	11.256%
7/17/2022	0.000	0.000	4.535	0.000	0.318	-0.318	4.535	0.000	0.000	0.000%	4.535	45.350%	-0.318	-5.300%	0.220	11.055%
7/18/2022	0.000	0.000	4.550	0.000	0.364	-0.364	4.550	0.000	0.000	0.000%	4.550	45.500%	-0.364	-6.067%	0.230	11.558%
7/19/2022	0.000	0.000	4.550	0.000	0.329	-0.329	4.550	0.000	0.000	0.000%	4.550	45.500%	-0.329	-5.483%	0.220	11.055%
7/20/2022	0.000	0.000	4.456	0.000	0.330	-0.330	4.456	0.000	0.000	0.000%	4.456	44.560%	-0.330	-5.500%	0.215	10.804%
7/21/2022	0.000	0.000	4.501	0.000	0.310	-0.310	4.501	0.000	0.000	0.000%	4.501	45.010%	-0.310	-5.167%	0.225	11.307%
7/22/2022	0.000	0.000	4.667	0.000	0.320	-0.320	4.667	0.000	0.000	0.000%	4.667	46.670%	-0.320	-5.333%	0.223	11.206%
7/23/2022	0.000	0.000	4.852	0.000	0.325	-0.325	4.852	0.000	0.000	0.000%	4.852	48.520%	-0.325	-5.417%	0.235	11.809%
7/24/2022	0.000	0.000	4.738	0.000	0.323	-0.323	4.738	0.000	0.000	0.000%	4.738	47.380%	-0.323	-5.383%	0.250	12.563%
7/25/2022	0.000	0.000	4.769	0.000	0.315	-0.315	4.769	0.000	0.000	0.000%	4.769	47.690%	-0.315	-5.250%	0.243	12.211%
7/26/2022	0.000	0.000	4.581	0.000	0.286	-0.286	4.581	0.000	0.000	0.000%	4.581	45.810%	-0.286	-4.767%	0.280	14.070%
7/27/2022	0.000	0.000	4.668	0.000	0.339	-0.339	4.668	0.000	0.000	0.000%	4.668	46.680%	-0.339	-5.650%	0.381	19.146%
7/28/2022	0.000	0.000	4.745	0.000	0.334	-0.334	4.745	0.000	0.000	0.000%	4.745	47.450%	-0.334	-5.567%	0.265	13.317%
7/29/2022	0.000	0.000	4.685	0.000	0.325	-0.325	4.685	0.000	0.000	0.000%	4.685	46.850%	-0.325	-5.417%	0.266	13.367%
7/30/2022	0.000	0.000	4.661	0.000	0.327	-0.327	4.661	0.000	0.000	0.000%	4.661	46.610%	-0.327	-5.450%	0.250	12.563%
7/31/2022	0.000	0.000	4.659	0.000	0.279	-0.279	4.659	0.000	0.000	0.000%	4.659	46.590%	-0.279	-4.650%	0.245	12.312%
8/1/2022	0.000	0.000	4.943	0.000	0.278	-0.278	4.943	0.000	0.000	0.000%	4.943	49.430%	-0.278	-4.633%	0.300	15.075%
8/2/2022	0.000	0.000	4.555	0.000	0.365	-0.365	4.555	0.000	0.000	0.000%	4.555	45.550%	-0.365	-6.083%	0.279	14.020%
8/3/2022	0.000	0.000	4.669	0.000	0.330	-0.330	4.669	0.000	0.000	0.000%	4.669	46.690%	-0.330	-5.500%	0.262	13.166%
8/4/2022	0.000	0.000	4.815	0.000	0.359	-0.359	4.815	0.000	0.000	0.000%	4.815	48.150%	-0.359	-5.983%	0.316	15.879%

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	Salisbury 1		Albemarle 1	Charlotte 1-3		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).											
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer	
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT									
8/5/2022	0.000	0.000	4.582	0.000	0.418	-0.418	4.582	0.000	0.000	0.000%	4.582	45.820%	-0.418	-6.967%	0.218	10.955%	
8/6/2022	0.000	0.000	4.833	0.000	0.298	-0.298	4.833	0.000	0.000	0.000%	4.833	48.330%	-0.298	-4.967%	0.245	12.312%	
8/7/2022	0.000	0.000	4.690	0.000	0.300	-0.300	4.690	0.000	0.000	0.000%	4.690	46.900%	-0.300	-5.000%	0.274	13.769%	
8/8/2022	0.000	0.000	4.744	0.000	0.326	-0.326	4.744	0.000	0.000	0.000%	4.744	47.440%	-0.326	-5.433%	0.235	11.809%	
8/9/2022	0.000	0.000	4.697	0.000	0.313	-0.313	4.697	0.000	0.000	0.000%	4.697	46.970%	-0.313	-5.217%	0.230	11.558%	
8/10/2022	0.000	0.000	4.997	0.000	0.407	-0.407	4.997	0.000	0.000	0.000%	4.997	49.970%	-0.407	-6.783%	0.251	12.613%	
8/11/2022	0.000	0.000	4.920	0.000	0.279	-0.279	4.920	0.000	0.000	0.000%	4.920	49.200%	-0.279	-4.650%	0.219	11.005%	
8/12/2022	0.000	0.000	4.582	0.000	0.334	-0.334	4.582	0.000	0.000	0.000%	4.582	45.820%	-0.334	-5.567%	0.237	11.910%	
8/13/2022	0.000	0.000	4.584	0.000	0.277	-0.277	4.584	0.000	0.000	0.000%	4.584	45.840%	-0.277	-4.617%	0.215	10.804%	
8/14/2022	0.000	0.000	4.551	0.000	0.321	-0.321	4.551	0.000	0.000	0.000%	4.551	45.510%	-0.321	-5.350%	0.220	11.055%	
8/15/2022	0.000	0.000	4.350	0.000	0.386	-0.386	4.350	0.000	0.000	0.000%	4.350	43.500%	-0.386	-6.433%	0.190	9.548%	
8/16/2022	0.000	0.000	4.375	0.000	0.272	-0.272	4.375	0.000	0.000	0.000%	4.375	43.750%	-0.272	-4.533%	0.225	11.307%	
8/17/2022	0.000	0.000	4.324	0.000	0.284	-0.284	4.324	0.000	0.000	0.000%	4.324	43.240%	-0.284	-4.733%	0.273	13.719%	
8/18/2022	0.000	0.000	4.371	0.000	0.289	-0.289	4.371	0.000	0.000	0.000%	4.371	43.710%	-0.289	-4.817%	0.235	11.809%	
8/19/2022	0.000	0.000	4.430	0.000	0.312	-0.312	4.430	0.000	0.000	0.000%	4.430	44.300%	-0.312	-5.200%	0.242	12.161%	
8/20/2022	0.000	0.000	4.617	0.000	0.331	-0.331	4.617	0.000	0.000	0.000%	4.617	46.170%	-0.331	-5.517%	0.175	8.794%	
8/21/2022	0.000	0.000	4.474	0.000	0.286	-0.286	4.474	0.000	0.000	0.000%	4.474	44.740%	-0.286	-4.767%	0.260	13.065%	
8/22/2022	0.000	0.000	4.426	0.000	0.280	-0.280	4.426	0.000	0.000	0.000%	4.426	44.260%	-0.280	-4.667%	0.180	9.045%	
8/23/2022	0.000	0.000	4.233	0.000	0.285	-0.285	4.233	0.000	0.000	0.000%	4.233	42.330%	-0.285	-4.750%	0.236	11.859%	
8/24/2022	0.000	0.000	4.429	0.000	0.312	-0.312	4.429	0.000	0.000	0.000%	4.429	44.290%	-0.312	-5.200%	0.261	13.116%	
8/25/2022	0.000	0.000	4.660	0.000	0.276	-0.276	4.660	0.000	0.000	0.000%	4.660	46.600%	-0.276	-4.600%	0.248	12.462%	
8/26/2022	0.000	0.000	4.704	0.000	0.320	-0.320	4.704	0.000	0.000	0.000%	4.704	47.040%	-0.320	-5.333%	0.234	11.759%	
8/27/2022	0.000	0.000	5.008	0.000	0.325	-0.325	5.008	0.000	0.000	0.000%	5.008	50.080%	-0.325	-5.417%	0.269	13.518%	
8/28/2022	0.000	0.000	4.898	0.000	0.286	-0.286	4.898	0.000	0.000	0.000%	4.898	48.980%	-0.286	-4.767%	0.295	14.824%	
8/29/2022	0.000	0.000	4.847	0.000	0.334	-0.334	4.847	0.000	0.000	0.000%	4.847	48.470%	-0.334	-5.567%	0.200	10.050%	
8/30/2022	0.000	0.000	4.461	0.000	0.283	-0.283	4.461	0.000	0.000	0.000%	4.461	44.610%	-0.283	-4.717%	0.170	8.543%	
8/31/2022	0.000	0.000	4.517	0.000	0.325	-0.325	4.517	0.000	0.000	0.000%	4.517	45.170%	-0.325	-5.417%	0.374	18.794%	
9/1/2022	0.000	0.000	4.831	0.000	0.288	-0.288	4.831	0.000	0.000	0.000%	4.831	48.310%	-0.288	-4.800%	0.454	22.814%	
9/2/2022	0.000	0.000	4.682	0.000	0.342	-0.342	4.682	0.000	0.000	0.000%	4.682	46.820%	-0.342	-5.700%	0.342	17.186%	
9/3/2022	0.000	0.000	4.631	0.000	0.283	-0.283	4.631	0.000	0.000	0.000%	4.631	46.310%	-0.283	-4.717%	0.283	14.221%	
9/4/2022	0.000	0.000	4.735	0.000	0.269	-0.269	4.735	0.000	0.000	0.000%	4.735	47.350%	-0.269	-4.483%	0.269	13.518%	
9/5/2022	0.000	0.000	4.494	0.000	0.277	-0.277	4.494	0.000	0.000	0.000%	4.494	44.940%	-0.277	-4.617%	0.277	13.920%	
9/6/2022	0.000	0.000	4.647	0.000	0.299	-0.299	4.647	0.000	0.000	0.000%	4.647	46.470%	-0.299	-4.983%	0.299	15.025%	
9/7/2022	0.000	0.000	4.514	0.000	0.286	-0.286	4.514	0.000	0.000	0.000%	4.514	45.140%	-0.286	-4.767%	0.286	14.372%	
9/8/2022	0.000	0.000	4.606	0.000	0.274	-0.274	4.606	0.000	0.000	0.000%	4.606	46.060%	-0.274	-4.567%	0.274	13.769%	
9/9/2022	0.000	0.000	4.494	0.000	0.274	-0.274	4.494	0.000	0.000	0.000%	4.494	44.940%	-0.274	-4.567%	0.274	13.769%	
9/10/2022	0.000	0.000	4.764	0.000	0.237	-0.237	4.764	0.000	0.000	0.000%	4.764	47.640%	-0.237	-3.950%	0.237	11.910%	
9/11/2022	0.000	0.000	4.638	0.000	0.277	-0.277	4.638	0.000	0.000	0.000%	4.638	46.380%	-0.277	-4.617%	0.277	13.920%	
9/12/2022	0.000	0.000	4.405	0.000	0.313	-0.313	4.405	0.000	0.000	0.000%	4.405	44.050%	-0.313	-5.217%	0.313	15.729%	
9/13/2022	0.000	0.000	4.475	0.000	0.274	-0.274	4.475	0.000	0.000	0.000%	4.475	44.750%	-0.274	-4.567%	0.274	13.769%	
9/14/2022	0.000	0.000	4.497	0.000	0.293	-0.293	4.497	0.000	0.000	0.000%	4.497	44.970%	-0.293	-4.883%	0.293	14.724%	
9/15/2022	0.000	0.000	4.477	0.000	0.265	-0.265	4.477	0.000	0.000	0.000%	4.477	44.770%	-0.265	-4.417%	0.265	13.317%	
9/16/2022	0.000	0.000	4.533	0.000	0.304	-0.304	4.533	0.000	0.000	0.000%	4.533	45.330%	-0.304	-5.067%	0.304	15.276%	
9/17/2022	0.000	0.000	4.621	0.000	0.268	-0.268	4.621	0.000	0.000	0.000%	4.621	46.210%	-0.268	-4.467%	0.268	13.467%	
9/18/2022	0.000	0.000	4.903	0.000	0.263	-0.263	4.903	0.000	0.000	0.000%	4.903	49.030%	-0.263	-4.383%	0.263	13.216%	
9/19/2022	0.000	0.000	4.898	0.000	0.332	-0.332	4.898	0.000	0.000	0.000%	4.898	48.980%	-0.332	-5.533%	0.332	16.683%	
9/20/2022	0.000	0.000	4.578	0.000	0.283	-0.283	4.578	0.000	0.000	0.000%	4.578	45.780%	-0.283	-4.717%	0.283	14.221%	
9/21/2022	0.000	0.000	4.625	0.000	0.330	-0.330	4.625	0.000	0.000	0.000%	4.625	46.250%	-0.330	-5.500%	0.330	16.583%	
9/22/2022	0.000	0.000	4.665	0.000	0.286	-0.286	4.665	0.000	0.000	0.000%	4.665	46.650%	-0.286	-4.767%	0.286	14.372%	
9/23/2022	0.000	0.000	4.588	0.000	0.351	-0.351	4.588	0.000	0.000	0.000%	4.588	45.880%	-0.351	-5.850%	0.351	17.638%	
9/24/2022	0.000	0.000	4.597	0.000	0.342	-0.342	4.597	0.000	0.000	0.000%	4.597	45.970%	-0.342	-5.700%	0.342	17.186%	
9/25/2022	0.000	0.000	4.633	0.000	0.281	-0.281	4.633	0.000	0.000	0.000%	4.633	46.330%	-0.281	-4.683%	0.281	14.121%	
9/26/2022	0.000	0.000	4.466	0.000	0.386	-0.386	4.466	0.000	0.000	0.000%	4.466	44.660%	-0.386	-6.433%	0.386	19.397%	
9/27/2022	0.000	0.000	4.426	0.000	0.310	-0.310	4.426	0.000	0.000	0.000%	4.426	44.260%	-0.310	-5.167%	0.310	15.578%	
9/28/2022	0.000	0.000	4.343	0.000	0.283	-0.283	4.343	0.000	0.000	0.000%	4.343	43.430%	-0.283	-4.717%	0.283	14.221%	
9/29/2022	0.000	0.000	4.216	0.000	0.372	-0.372	4.216	0.000	0.000	0.000%	4.216	42.160%	-0.372	-6.200%	0.372	18.693%	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	Salisbury 1		Albemarle 1	Charlotte 1-3	South Yadkin	NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).											
	South Yadkin	Yadkin	Yadkin	Catawba		South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer	
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT									
9/30/2022	0.000	0.000	4.122	0.000	0.199	-0.199	4.122	0.000	0.000	0.000%	4.122	41.220%	-0.199	-3.317%	0.199	10.000%	
10/1/2022	0.000	0.000	4.122	0.000	0.327	-0.327	4.122	0.000	0.000	0.000%	4.122	41.220%	-0.327	-5.450%	0.327	16.432%	
10/2/2022	0.000	0.000	4.567	0.000	0.259	-0.259	4.567	0.000	0.000	0.000%	4.567	45.670%	-0.259	-4.317%	0.259	13.015%	
10/3/2022	0.000	0.000	4.482	0.000	0.304	-0.304	4.482	0.000	0.000	0.000%	4.482	44.820%	-0.304	-5.067%	0.304	15.276%	
10/4/2022	0.000	0.000	4.477	0.000	0.336	-0.336	4.477	0.000	0.000	0.000%	4.477	44.770%	-0.336	-5.600%	0.336	16.884%	
10/5/2022	0.000	0.000	4.359	0.000	0.338	-0.338	4.359	0.000	0.000	0.000%	4.359	43.590%	-0.338	-5.633%	0.338	16.985%	
10/6/2022	0.000	0.000	4.456	0.000	0.274	-0.274	4.456	0.000	0.000	0.000%	4.456	44.560%	-0.274	-4.567%	0.274	13.769%	
10/7/2022	0.000	0.000	4.462	0.000	0.314	-0.314	4.462	0.000	0.000	0.000%	4.462	44.620%	-0.314	-5.233%	0.314	15.779%	
10/8/2022	0.000	0.000	4.414	0.000	0.262	-0.262	4.414	0.000	0.000	0.000%	4.414	44.140%	-0.262	-4.367%	0.262	13.166%	
10/9/2022	0.000	0.000	4.427	0.000	0.340	-0.340	4.427	0.000	0.000	0.000%	4.427	44.270%	-0.340	-5.667%	0.340	17.085%	
10/10/2022	0.000	0.000	4.354	0.000	0.321	-0.321	4.354	0.000	0.000	0.000%	4.354	43.540%	-0.321	-5.350%	0.321	16.131%	
10/11/2022	0.000	0.000	4.408	0.000	0.261	-0.261	4.408	0.000	0.000	0.000%	4.408	44.080%	-0.261	-4.350%	0.261	13.116%	
10/12/2022	0.000	0.000	4.282	0.000	0.312	-0.312	4.282	0.000	0.000	0.000%	4.282	42.820%	-0.312	-5.200%	0.312	15.678%	
10/13/2022	0.000	0.000	4.385	0.000	0.272	-0.272	4.385	0.000	0.000	0.000%	4.385	43.850%	-0.272	-4.533%	0.272	13.668%	
10/14/2022	0.000	0.000	4.364	0.000	0.325	-0.325	4.364	0.000	0.000	0.000%	4.364	43.640%	-0.325	-5.417%	0.325	16.332%	
10/15/2022	0.000	0.000	4.484	0.000	0.275	-0.275	4.484	0.000	0.000	0.000%	4.484	44.840%	-0.275	-4.583%	0.275	13.819%	
10/16/2022	0.000	0.000	4.726	0.000	0.267	-0.267	4.726	0.000	0.000	0.000%	4.726	47.260%	-0.267	-4.450%	0.267	13.417%	
10/17/2022	0.000	0.000	4.467	0.000	0.303	-0.303	4.467	0.000	0.000	0.000%	4.467	44.670%	-0.303	-5.050%	0.303	15.226%	
10/18/2022	0.000	0.000	4.496	0.000	0.261	-0.261	4.496	0.000	0.000	0.000%	4.496	44.960%	-0.261	-4.350%	0.261	13.116%	
10/19/2022	0.000	0.000	4.575	0.000	0.325	-0.325	4.575	0.000	0.000	0.000%	4.575	45.750%	-0.325	-5.417%	0.325	16.332%	
10/20/2022	0.000	0.000	4.433	0.000	0.267	-0.267	4.433	0.000	0.000	0.000%	4.433	44.330%	-0.267	-4.450%	0.267	13.417%	
10/21/2022	0.000	0.000	4.632	0.000	0.310	-0.310	4.632	0.000	0.000	0.000%	4.632	46.320%	-0.310	-5.167%	0.310	15.578%	
10/22/2022	0.000	0.000	4.587	0.000	0.266	-0.266	4.587	0.000	0.000	0.000%	4.587	45.870%	-0.266	-4.433%	0.266	13.367%	
10/23/2022	0.000	0.000	4.691	0.000	0.266	-0.266	4.691	0.000	0.000	0.000%	4.691	46.910%	-0.266	-4.433%	0.266	13.367%	
10/24/2022	0.000	0.000	4.718	0.000	0.325	-0.325	4.718	0.000	0.000	0.000%	4.718	47.180%	-0.325	-5.417%	0.325	16.332%	
10/25/2022	0.000	0.000	4.613	0.000	0.263	-0.263	4.613	0.000	0.000	0.000%	4.613	46.130%	-0.263	-4.383%	0.263	13.216%	
10/26/2022	0.000	0.000	4.595	0.000	0.319	-0.319	4.595	0.000	0.000	0.000%	4.595	45.950%	-0.319	-5.317%	0.319	16.030%	
10/27/2022	0.000	0.000	4.439	0.000	0.303	-0.303	4.439	0.000	0.000	0.000%	4.439	44.390%	-0.303	-5.050%	0.303	15.226%	
10/28/2022	0.000	0.000	4.496	0.000	0.328	-0.328	4.496	0.000	0.000	0.000%	4.496	44.960%	-0.328	-5.467%	0.328	16.482%	
10/29/2022	0.000	0.000	4.631	0.000	0.424	-0.424	4.631	0.000	0.000	0.000%	4.631	46.310%	-0.424	-7.067%	0.424	21.307%	
10/30/2022	0.000	0.000	4.550	0.000	0.324	-0.324	4.550	0.000	0.000	0.000%	4.550	45.500%	-0.324	-5.400%	0.324	16.281%	
10/31/2022	0.000	0.000	4.500	0.000	0.341	-0.341	4.500	0.000	0.000	0.000%	4.500	45.000%	-0.341	-5.683%	0.341	17.136%	
11/1/2022	0.000	0.000	4.652	0.000	0.344	-0.344	4.652	0.000	0.000	0.000%	4.652	46.520%	-0.344	-5.733%	0.344	17.286%	
11/2/2022	0.000	0.000	4.678	0.000	0.307	-0.307	4.678	0.000	0.000	0.000%	4.678	46.780%	-0.307	-5.117%	0.307	15.427%	
11/3/2022	0.000	0.000	4.756	0.000	0.383	-0.383	4.756	0.000	0.000	0.000%	4.756	47.560%	-0.383	-6.383%	0.383	19.246%	
11/4/2022	0.000	0.000	4.724	0.000	0.338	-0.338	4.724	0.000	0.000	0.000%	4.724	47.240%	-0.338	-5.633%	0.338	16.985%	
11/5/2022	0.000	0.000	4.642	0.000	0.340	-0.340	4.642	0.000	0.000	0.000%	4.642	46.420%	-0.340	-5.667%	0.340	17.085%	
11/6/2022	0.000	0.000	4.503	0.000	0.320	-0.320	4.503	0.000	0.000	0.000%	4.503	45.030%	-0.320	-5.333%	0.320	16.080%	
11/7/2022	0.000	0.000	5.554	0.000	0.364	-0.364	5.554	0.000	0.000	0.000%	5.554	55.540%	-0.364	-6.067%	0.364	18.291%	
11/8/2022	0.000	0.000	4.376	0.000	0.389	-0.389	4.376	0.000	0.000	0.000%	4.376	43.760%	-0.389	-6.483%	0.389	19.548%	
11/9/2022	0.000	0.000	4.304	0.000	0.377	-0.377	4.304	0.000	0.000	0.000%	4.304	43.040%	-0.377	-6.283%	0.377	18.945%	
11/10/2022	0.000	0.000	4.091	0.000	0.253	-0.253	4.091	0.000	0.000	0.000%	4.091	40.910%	-0.253	-4.217%	0.253	12.714%	
11/11/2022	0.000	0.000	4.331	0.000	0.257	-0.257	4.331	0.000	0.000	0.000%	4.331	43.310%	-0.257	-4.283%	0.257	12.915%	
11/12/2022	0.000	0.000	4.126	0.000	0.255	-0.255	4.126	0.000	0.000	0.000%	4.126	41.260%	-0.255	-4.250%	0.255	12.814%	
11/13/2022	0.000	0.000	4.221	0.000	0.259	-0.259	4.221	0.000	0.000	0.000%	4.221	42.210%	-0.259	-4.317%	0.259	13.015%	
11/14/2022	0.000	0.000	4.166	0.000	0.245	-0.245	4.166	0.000	0.000	0.000%	4.166	41.660%	-0.245	-4.083%	0.245	12.312%	
11/15/2022	0.000	0.000	4.264	0.000	0.260	-0.260	4.264	0.000	0.000	0.000%	4.264	42.640%	-0.260	-4.333%	0.260	13.065%	
11/16/2022	0.000	0.000	4.260	0.000	0.259	-0.259	4.260	0.000	0.000	0.000%	4.260	42.600%	-0.259	-4.317%	0.259	13.015%	
11/17/2022	0.000	0.000	4.193	0.000	0.287	-0.287	4.193	0.000	0.000	0.000%	4.193	41.930%	-0.287	-4.783%	0.287	14.422%	
11/18/2022	0.000	0.000	4.178	0.000	0.271	-0.271	4.178	0.000	0.000	0.000%	4.178	41.780%	-0.271	-4.517%	0.271	13.618%	
11/19/2022	0.000	0.000	4.298	0.000	0.280	-0.280	4.298	0.000	0.000	0.000%	4.298	42.980%	-0.280	-4.667%	0.280	14.070%	
11/20/2022	0.000	0.000	4.257	0.000	0.264	-0.264	4.257	0.000	0.000	0.000%	4.257	42.570%	-0.264	-4.400%	0.264	13.266%	
11/21/2022	0.000	0.000	4.384	0.000	0.260	-0.260	4.384	0.000	0.000	0.000%	4.384	43.840%	-0.260	-4.333%	0.260	13.065%	
11/22/2022	0.000	0.000	4.356	0.000	0.305	-0.305	4.356	0.000	0.000	0.000%	4.356	43.560%	-0.305	-5.083%	0.305	15.327%	
11/23/2022	0.000	0.000	4.432	0.000	0.261	-0.261	4.432	0.000	0.000	0.000%	4.432	44.320%	-0.261	-4.350%	0.261	13.116%	
11/24/2022	0.000	0.000	4.359	0.000	0.259	-0.259	4.359	0.000	0.000	0.000%	4.359	43.590%	-0.259	-4.317%	0.259	13.015%	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)	IBT Totals Per Basin				Interbasin Transfer							
	South Yadkin	Salisbury 1 Yadkin	Albemarle 1 Yadkin	Charlotte 1-3 Catawba	South Yadkin	South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer	
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer	
11/25/2022	0.000	0.000	4.189	0.000	0.203	-0.203	4.189	0.000	0.000	0.000%	4.189	41.890%	-0.203	-3.383%	0.203	10.201%	
11/26/2022	0.000	0.000	4.078	0.000	0.228	-0.228	4.078	0.000	0.000	0.000%	4.078	40.780%	-0.228	-3.800%	0.228	11.457%	
11/27/2022	0.000	0.000	4.078	0.000	0.235	-0.235	4.078	0.000	0.000	0.000%	4.078	40.780%	-0.235	-3.917%	0.235	11.809%	
11/28/2022	0.000	0.000	6.790	0.000	0.303	-0.303	6.790	0.000	0.000	0.000%	6.790	67.900%	-0.303	-5.050%	0.303	15.226%	
11/29/2022	0.000	0.000	4.326	0.000	0.262	-0.262	4.326	0.000	0.000	0.000%	4.326	43.260%	-0.262	-4.367%	0.262	13.166%	
11/30/2022	0.000	0.000	4.387	0.000	0.214	-0.214	4.387	0.000	0.000	0.000%	4.387	43.870%	-0.214	-3.567%	0.214	10.754%	
12/1/2022	0.000	0.000	4.414	0.000	0.263	-0.263	4.414	0.000	0.000	0.000%	4.414	44.140%	-0.263	-4.383%	0.263	13.216%	
12/2/2022	0.000	0.000	4.289	0.000	0.268	-0.268	4.289	0.000	0.000	0.000%	4.289	42.890%	-0.268	-4.467%	0.268	13.467%	
12/3/2022	0.000	0.000	4.221	0.000	0.256	-0.256	4.221	0.000	0.000	0.000%	4.221	42.210%	-0.256	-4.267%	0.256	12.864%	
12/4/2022	0.000	0.000	4.187	0.000	0.260	-0.260	4.187	0.000	0.000	0.000%	4.187	41.870%	-0.260	-4.333%	0.260	13.065%	
12/5/2022	0.000	0.000	4.302	0.000	0.332	-0.332	4.302	0.000	0.000	0.000%	4.302	43.020%	-0.332	-5.533%	0.332	16.683%	
12/6/2022	0.000	0.000	4.311	0.000	0.294	-0.294	4.311	0.000	0.000	0.000%	4.311	43.110%	-0.294	-4.900%	0.294	14.774%	
12/7/2022	0.000	0.000	4.264	0.000	0.273	-0.273	4.264	0.000	0.000	0.000%	4.264	42.640%	-0.273	-4.550%	0.273	13.719%	
12/8/2022	0.000	0.000	4.293	0.000	0.345	-0.345	4.293	0.000	0.000	0.000%	4.293	42.930%	-0.345	-5.750%	0.345	17.337%	
12/9/2022	0.000	0.000	4.115	0.000	0.260	-0.260	4.115	0.000	0.000	0.000%	4.115	41.150%	-0.260	-4.333%	0.260	13.065%	
12/10/2022	0.000	0.000	4.254	0.000	0.256	-0.256	4.254	0.000	0.000	0.000%	4.254	42.540%	-0.256	-4.267%	0.256	12.864%	
12/11/2022	0.000	0.000	4.270	0.000	0.271	-0.271	4.270	0.000	0.000	0.000%	4.270	42.700%	-0.271	-4.517%	0.271	13.618%	
12/12/2022	0.000	0.000	4.254	0.000	0.260	-0.260	4.254	0.000	0.000	0.000%	4.254	42.540%	-0.260	-4.333%	0.260	13.065%	
12/13/2022	0.000	0.000	4.214	0.000	0.263	-0.263	4.214	0.000	0.000	0.000%	4.214	42.140%	-0.263	-4.383%	0.263	13.216%	
12/14/2022	0.000	0.000	4.403	0.000	0.257	-0.257	4.403	0.000	0.000	0.000%	4.403	44.030%	-0.257	-4.283%	0.257	12.915%	
12/15/2022	0.000	0.000	4.263	0.000	0.262	-0.262	4.263	0.000	0.000	0.000%	4.263	42.630%	-0.262	-4.367%	0.262	13.166%	
12/16/2022	0.000	0.000	4.284	0.000	0.265	-0.265	4.284	0.000	0.000	0.000%	4.284	42.840%	-0.265	-4.417%	0.265	13.317%	
12/17/2022	0.000	0.000	4.408	0.000	0.255	-0.255	4.408	0.000	0.000	0.000%	4.408	44.080%	-0.255	-4.250%	0.255	12.814%	
12/18/2022	0.000	0.000	4.286	0.000	0.260	-0.260	4.286	0.000	0.000	0.000%	4.286	42.860%	-0.260	-4.333%	0.260	13.065%	
12/19/2022	0.000	0.000	4.405	0.000	0.261	-0.261	4.405	0.000	0.000	0.000%	4.405	44.050%	-0.261	-4.350%	0.261	13.116%	
12/20/2022	0.000	0.000	4.346	0.000	0.280	-0.280	4.346	0.000	0.000	0.000%	4.346	43.460%	-0.280	-4.667%	0.280	14.070%	
12/21/2022	0.000	0.000	4.138	0.000	0.348	-0.348	4.138	0.000	0.000	0.000%	4.138	41.380%	-0.348	-5.800%	0.348	17.487%	
12/22/2022	0.000	0.000	4.154	0.000	0.259	-0.259	4.154	0.000	0.000	0.000%	4.154	41.540%	-0.259	-4.317%	0.259	13.015%	
12/23/2022	0.000	0.000	4.131	0.000	0.261	-0.261	4.131	0.000	0.000	0.000%	4.131	41.310%	-0.261	-4.350%	0.261	13.116%	
12/24/2022	0.000	0.000	4.295	0.000	0.289	-0.289	4.295	0.000	0.000	0.000%	4.295	42.950%	-0.289	-4.817%	0.289	14.523%	
12/25/2022	0.000	0.000	4.362	0.000	0.306	-0.306	4.362	0.000	0.000	0.000%	4.362	43.620%	-0.306	-5.100%	0.306	15.377%	
12/26/2022	0.000	0.000	4.488	0.000	0.327	-0.327	4.488	0.000	0.000	0.000%	4.488	44.880%	-0.327	-5.450%	0.327	16.432%	
12/27/2022	0.000	0.000	4.320	0.000	0.351	-0.351	4.320	0.000	0.000	0.000%	4.320	43.200%	-0.351	-5.850%	0.351	17.638%	
12/28/2022	0.000	0.000	4.349	0.000	0.314	-0.314	4.349	0.000	0.000	0.000%	4.349	43.490%	-0.314	-5.233%	0.314	15.779%	
12/29/2022	0.000	0.000	4.292	0.000	0.260	-0.260	4.292	0.000	0.000	0.000%	4.292	42.920%	-0.260	-4.333%	0.260	13.065%	
12/30/2022	0.000	0.000	4.227	0.000	0.236	-0.236	4.227	0.000	0.000	0.000%	4.227	42.270%	-0.236	-3.933%	0.236	11.859%	
12/31/2022	0.000	0.000	4.083	0.000	0.235	-0.235	4.083	0.000	0.000	0.000%	4.083	40.830%	-0.235	-3.917%	0.235	11.809%	
AVG 2022	0.000	0.001	4.519	0.000	0.290	0.208	4.509	0.000	0.000	0.000%	4.509	45.088%	-0.290	-4.831%	0.270	13.564%	
MAX 2022	0.000	0.302	6.790	0.000	0.424	0.449	6.790	0.000	0.000	0.000%	6.790	67.900%	-0.032	-0.533%	0.454	22.814%	

¹ Transfers from Second Creek to Kannapolis Lake (South Yadkin Basin to Rocky River Basin) shall not exceed 6 MGD; positive numbers represent this direction of transfer as dominate
Transfers from Kannapolis (via purchase from Salisbury) to Landis (Yadkin Basin to South Yadkin Basin) shall not exceed 2 MGD; negative numbers represent this direction of transfer as the dominate